

Patient NAME		Report STATUS
DOB/Age/Gender		Barcode NO
Patient ID / UHID		Sample Type
Referred BY		Report Date
Sample Collected		

## #Vitamin D Advanced (D2, D3 & D Total)

Test Name	Results	Units	Biological Ref Range
25-Hydroxy Vitamin D Total Method: LC-MS/MS	17.50	nmol/L	75.00-250.00
25-Hydroxy Vitamin D2 Method: LC-MS/MS	1.20	nmol/L	
25-Hydroxy Vitamin D3 Method: LC-MS/MS	16.30	nmol/L	

### Interpretation :

RESULT IN nmol/L	REMARKS
<50	Severe Deficiency
50-74	Mild to Moderate Deficiency
75-250	Optimum level
>250	Toxic level

**Note :**

- Reference ranges represent clinical decision values and are established only for 25-Hydroxy Vitamine d, Total.
- Conventional Immunoassays may have sample-specific interferences that can lead to variable performance. These interferences include other vitamin D metabolites (e.g. 24,25-dihydroxyvitamin D3, 3-epi 25 hydroxy vitamin D3) and certain lipid.
- Physiologically inactive epimers of Vitamin D2 & D3 are separated chromatographically with Vitamin D metabolites as they may result in overestimation of Total Active Vitamin D levels. This can create therapeutic errors since patients who are deficient or insufficient may appear sufficient and toxicity may be reported in patients with high normal levels.

### Comments :

Vitamin D Total levels are composed of two components namely 25-Hydroxy Vitamin D2 and 25-Hydroxy Vitamin D3 both of which are converted into active forms. Vitamin D2 level corresponds with the exogenous dietary intake of Vitamin D rich foods as well as supplements. Vitamin D3 level corresponds with endogenous production as well as exogenous diet and supplements. This test is the preferred test for assessing vitamin D status and most accurately reflects the body's vitamin D stores.

### Decreased Levels

- Inadequate exposure to sunlight
- Dietary deficiency
- Vitamin D malabsorption
- Severe Hepatocellular disease
- Drugs like Anticonvulsants
- Nephrotic syndrome

**Increased levels :** Vitamin D intoxication

\*\*\* End Of Report \*\*\*



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